

Title (en)

HEATING APPARATUS, TEMPERATURE ESTIMATION APPARATUS AND HEATER CONTROL APPARATUS

Title (de)

HEIZVORRICHTUNG, TEMPERATURSCHÄTZUNGSVORRICHTUNG UND HEIZUNGSREGELUNGSVORRICHTUNG

Title (fr)

APPAREIL DE CHAUFFAGE, APPAREIL D'ÉVALUATION DE LA TEMPÉRATURE ET APPAREIL DE COMMANDE DE DISPOSITIF DE CHAUFFAGE

Publication

EP 3046395 B1 20170621 (EN)

Application

EP 15202744 A 20151224

Priority

JP 2015006310 A 20150116

Abstract (en)

[origin: EP3046395A1] [Objective] An object is to improve the accuracy in estimating the temperature of a heater or to accurately control the temperature of the heater. [Means for Solution] A heating apparatus includes a heater and an energization section. The heater includes a conductor, a heating element which generates heat when electricity is supplied thereto, and a substrate. The substrate is formed of ceramic, and the conductor and the heating element are separately embedded and held in the substrate. The energization section supplies electricity to the heating element as to cause the heater to generate heat. The heating apparatus further includes an obtainment section which obtains the electrical resistance of the substrate between the conductor and the heating element. It is possible to accurately estimate the temperature of the substrate or accurately control the temperature of the substrate on the basis of the electrical resistance obtained by the obtainment section.

IPC 8 full level

H05B 3/06 (2006.01); **F23Q 7/00** (2006.01); **H05B 3/48** (2006.01)

CPC (source: EP)

H05B 3/06 (2013.01); **H05B 3/48** (2013.01); **F23Q 2007/002** (2013.01); **H05B 2203/027** (2013.01)

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